NPS ARCHIVE
1959/V.3
ABEL, R.

A MANAGEMENT SURVEY
SIMMONS MACHINE TOOL CORPORATION, ALBANY, NEW YORK
V. 3

R. L. ABEL
AND OTHERS

NPS ARCHIVE
1959 / V.3
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Ables, R.L.

MANAGEMENT SEMINAR

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MANAGEMENT SURVEY

OF THE

SIMMONS MACHINE TOOL CORPORATION

ALBANY, NEW YORK

VOL.3

1959

N

PROPERTY LINE

PROPERTY LINE

KINGSTON STREET

MAIN ENTRANCE

"STATE" BLDG.

PROPERTY LINE

NO. PEARL ST. EXTENSION

AMSTERDAM AVENUE

BUILDING 17

BUILDING 16

BUILDING 13

BUILDING 15

BLDG 18

FASTENER DIVISION

BROADWAY

DELAWARE & HUDSON R.R.

12 SERVICE STATION

BLDG 9

BLDG 10

BLDG. 5

THERMO PRODUCTS

BLDG. 4

12 SERVICE STATION

BLDG 9

BLDG 10

HUDSON R.R.

BLDG. 5
THERMO PRODUCTS

BLDG. 4

BROADWAY

SIMMONS LANE

BLDG. 3
MACHINE SHOP

BLDG. 1

BLDG. 2

PROPERTY LINE

PROPERTY LINE

NO. PEARL ST. EXTENSION

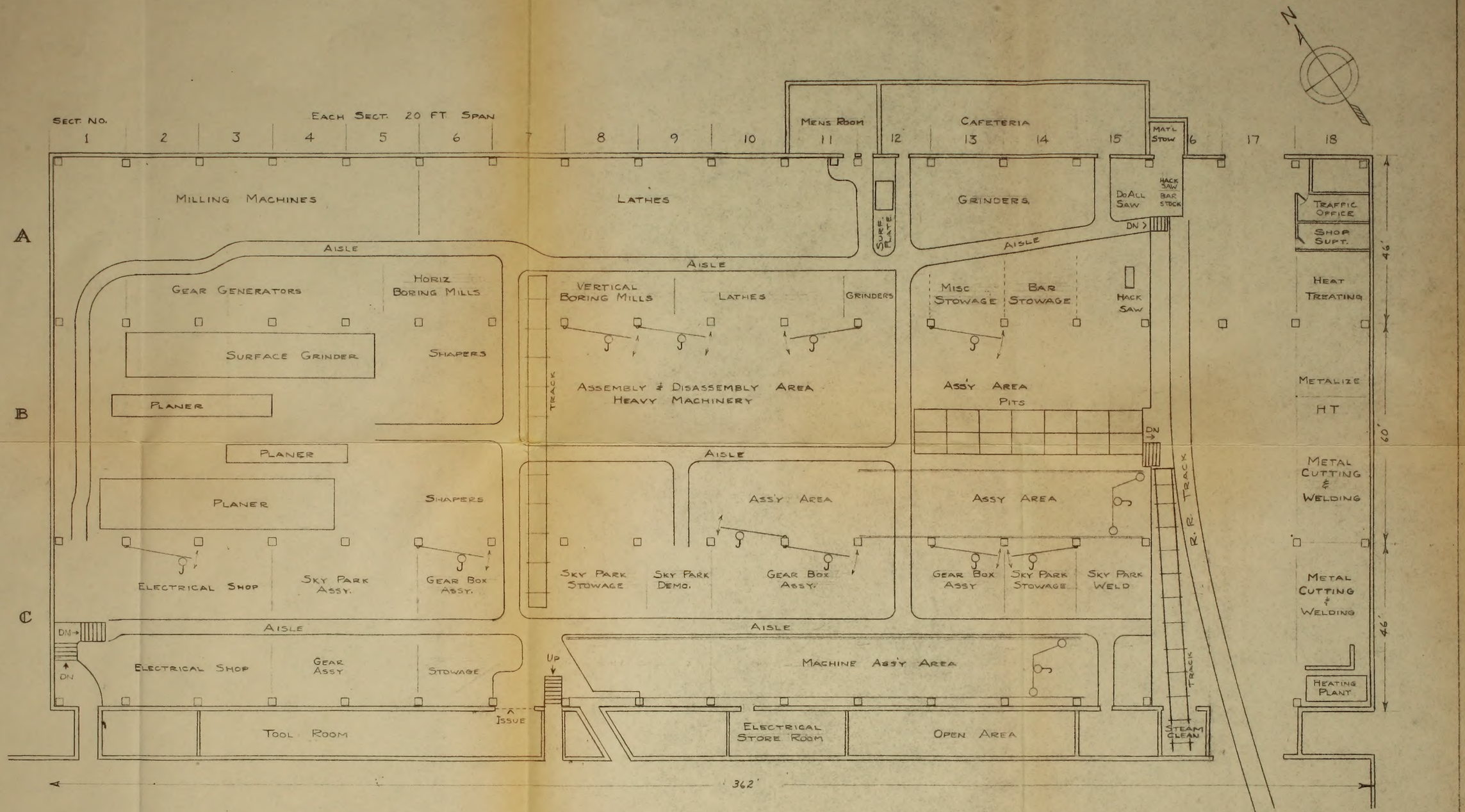
NAVY POSTGRADUATE PROGRAM
RENSSELAER POLYTECHNIC INSTITUTE
MANAGEMENT ENGINEERING SEMINAR G 6.80

SIMMONS MACHINE TOOL CORPORATION
ALBANY, NEW YORK
BUILDINGS AND PROPERTY

DATE 15 MAR 1959 SCALE 1 INCH = 50 FT.

DWG. NO. 1

Thesis
A164
v.3



LEGEND

- □ BUILDING COLUMN
- JIB CRANE 1 TON "BUGIT" HOIST
- TRAVELING HOIST 2 TON CAP.

NOTES

1. SIDE BAYS A & C CLEARANCE 30', 20' TO CRANE RAILS
2. CENTER BAY B CLEARANCE 40', 30' TO CRANE RAILS
3. CRANES BAYS A & C ONE EACH WHITING 20 TON
   BAY B TWO EACH 50 TON
4. POWER AC 3 ϕ 220 V Δ 200 kVA.
   DC 230 V. 225 KW. (2 ea. 100 kw MG SETS + 25 kw AUX.)
   AIR 100 PSI 4 15 HP UNITS
5. LIGHTING FLUORESCENT FIXTURES 10 FOOT SPACING
   INCANDESCENT 1000 WATT ON 20 FOOT CENTERS ALTERNATING WITH
   MURCURY VAPOR ON 20 FOOT CENTERS

NAVY POSTGRADUATE PROGRAM
RENSSELAER POLYTECHNIC INSTITUTE
MANAGEMENT ENGINEERING SEMINAR G 6.80

SIMMONS MACHINE TOOL CORPORATION
ALBANY, NEW YORK

MACHINE SHOP LAYOUT - BLDG NO 3

DATE 24 FEB 1959 SCALE 1/16 IN. = 1 FT.

DWG NO. 2

Thesis
A164
W3

STEARATING ROOM

TUMBLERS

WET TUMBLER

HARDWARE STOWAGE 8 BINS 36"X27"X30"

STOWAGE BINS 4 EA.

REEL ① REEL ② REEL ③

WIRE STRAIGHTENING MACHINES

SHELVES SHELVES

POWER LACERS 1 2

SERRATING MACHINE

FILES

ASSY PR. NO. 2 LL

HAND LACER

DP MOD.

PR.

DESK DESK

HAND LACERS (2)

HAND MILLS (2)

MACO PP

PP MACO

T

ASSY BENCH

RIVET MACH

MACO PP

① DIAMOND PRESSES (2)

③

TOLEDO PRESS

④ DIA PRESS

ASSY BENCH ASSY BENCH

RIVET SPINNER

PRODUCTION DEPT

STORAGE AREA

HARDWARE STOWAGE
BOTTOM TIER - 8 BINS
36 X 42 X 30
TOP TIER - 8 BINS
36 X 27 X 30

SLOTTER

BNCH. 9 8 7 6 5

PRODUCTION DRILLING MACHINES (2 SP)

HAND LACERS (2)

FLARING MACH

FOOT PRESS FOOT PRESS

DEGREASE TANKS

BENCH

TOTE PAN STOWAGE 10' HIGH

4 3 2 1

TOTE PAN STOWAGE 10" HIGH

OIL BARREL STORAGE

SHEET METAL & STEEL BAR STOCK STOWAGE RACK

ASSY PRESS

BELT SAND

ASSY BENCH ASSY BENCH ASSY BENCH

RIVET MACH.

SHEAR

BRAKE

INSPECTION BENCH

INSPECTION BENCH

AIR TANK

HEATING

AIR COMP.

WATER TANK

OVERHEAD DOOR 15 FT CL.

UNLOADING AREA

FLATFORM SCALE

STORAGE AREA COIL STEEL

DENNISON MULTI-PRESS

TOTE PAN STOWAGE

DENNISON MULTI-PRESS

BLISS PUNCH PRESSES (2)

TOLEDO PRESS

TOLEDO PRESS

PRODUCTION INSERT PRESSES

THOMAS PUNCH PRESS

INSERT PRESSES

2 6 5 4 3 2 1 7

MENS LOCKER ROOM

WOMENS LOCKER ROOM

UP

MENS WASH ROOM

WOMENS WASH ROOM

VENDING MACH

WOMENS LAV.

MENS LAV.

BENCH INSP.

ROCKWELL TESTER

PRODUCTION DEPT.

MILL MACH. ASSY PRESS

SHEAR PRESS

SLOTTER

SHEAR PRESS

DO-ALL SAW

SHEAR PRESS

SHEAR PRESS

ASS'Y PRESS

ENTRY

STORAGE

TOTE PAN STOWAGE 10' HIGH

SHEET METAL & STEEL BAR STOCK STOWAGE RACK

OIL BARREL STORAGE

ASSY PRESS

BELT SAND

TOTE PAN STOWAGE 10' HIGH

FOOT PRESS

FOOT PRESS

INSPECTION BENCH

INSPECTION BENCH

AIR TANK

AIR COMP.

WATER TANK

HEATIN

OVERHEAD DOOR 15 Ft Cl.

UNLOADING AREA

PLATFORM SCALE

DENNISON MULTI-PRESS

STORAGE AREA COIL STEEL

TOTE PAN STOWAGE

DENNISON MULTI-PRESS

BLISS PUNCH PRESSES (2)

TOLEDO PRESS

TOLEDO PRESS

PRODUCTION INSERT PRESSES

THOMAS PUNCH PRESS

INSERT PRESSES

BENCH INSP.

ROCKWELL TESTER

MENS LOCKER ROOM

WOMENS LOCKER ROOM

UP

MENS WASH ROOM

WOMENS WASH ROOM

VENDING MACH

WOMENS LAV.

MENS LAV.

PRODUCTION DEPT.

ENTRY

SHELVES - TOOL & DIE STOWAGE

SHELVES - TOOL & DIE STOWAGE

SIMMONS MICRO-SPEED LATHES (2)

SHELVES

MILL MACH.

ASS'Y PRESS

SHEAR PRESS

SLOTTER

SHEAR PRESS

SHELF STORAGE

DP

DO-ALL SAW

SHEAR PRESS

DP

SHEAR PRESS

DP

ASS'Y PRESS

SHELVES

S.B. LATHE

BENCH AREA

B&S MILL

SIMMONS MILL

VAN NORMAN MILL

B (MT)

TENSILE TESTER

B (MT)

B (MT)

B (MT)

DO-ALL SAW

HT OVEN

LATHE

SURF. PLATE

TT

B (MT)

B (MT) INSPECT

MACHINE SHOP

SPRING WIND

TOOL GR.

FILING MACHINE

TOOL GR.

GRINDERS (5)

GR.

T

NORTON

DUST COL

DUST COL

B&S

SPRINGFIELD LATHE

TT

LATHE (MOD)

BRADFORD LATHE

SHELDON LATHE

TT

DP

T

DP

SIMMONS LATHE

SHAPER

DP

THERMO-ELECT. FURNACE

TANKS

WELD BENCH

OFFICES

MAG DIP

GR.

ASSY BENCH

PUNCH PR

SPOT WELDER

F.T.

BENCH

ASSY BENCH

FOOT PRESS

TOOL CRIB & STORE ROOM

T

DES

ISSUE

PWR. HACK SAW

TOOL STORAGE

BAR STOCK RACK

STORAGE

ARC WELD

OXY ACET WELD

WELD BENCH

WELD ASSEMBLY PRESSES (3)

PADER SHEAR

TUBING MACH

SCALES (WT COUNT)

LIFT

SHIPPING & RECEIVING DEPARTMENT

FOOT PRESS

FOOT PRESS

DIAMOND PRESS

6

HAND SHEAR

7

HAND PUNCH

BENCH

BENCH

ELECT WELDER

TIRE CHOCK

CAB

BENCH

BENCH

DESK

FILE

SCALE

LEGEND

N

LEGEND:

N

Navy Postgraduate Program Rensselaer Polytechnic Institute Management Engineering Seminar S 250	
Simmons Machine Tool Corporation Fastener Division Shop Layout Bldg 18 Date 7 [illegible] 59	Scale 1/4 in. = 1 ft.
	Dwg No. 3

Thesis

STEARATING ROOM

TUMBLERS

WET TUMBLER

DEGREASE TANKS

OIL EMULSIFIER

SOLV

HYDRO

MA.H

CLN

TUMBLER STORAGE AREA 12 BARRELS

PRODUCTION DRILLS (8)

1 2 3 4 5 6 7 8

DP

HAND MILLS (2)

MAGN PP

SIMMONS MICRO-SPEED TURRET LATHES (2)

FLARING MACH.

RESISTANCE WELDER

SPOT WELDER

SHEAR

DP

HAND

ASS'Y. BENCH

DP

MOD DP

No. 2 DRILL

MAGN DP

MOD DP

SPR LOCK

MAGN DP

SLOTTERS 2

DRILL PRESSES (3)

TOLEDO PRESS

POWER LAYERS 2

FILES

DESK

DESK

MAINT LAYERS (5)

ASSY BENCH

ASSY BENCH

FP

FP

ASSY BENCH

ASSY BENCH

ASSY BENCH

ASSY BENCH

RIVET MACH

AISLE 7 F

AISLE

TOTE PAN STOWAGE 10 Ft HIGH

TOTE PAN STOWAGE 10 Ft. HIGH

WIRE STRAIGHTENING MACHINES

10

9

8

6

5

7

INSERT PRESSES 10 DIAMOND PUNCH

4

3

2

1

BRAKE

SHEAR

TOLEDO PUNCH PRESS 30 T

TOLEDO HYDRO PRESS 60 T

20 T

BLISS

OVERHEAD DOOR CL 15 FT.

POWER HACK-SAW

SHEET METAL & BAR STOCK STORAGE RACK

AISLE

CURTAIN

THOMAS HYDRO PRESS

WELD BENCH

ARC WELD

SHEAR PRESS

SHEAR

SHEAR

DP

DP

B (NIT)

DO ALL SAW

AIR TANK

AIR COMP.

HEATING PL

MENS LOCKER ROOM

WOMENS LOCKER ROOM

UP

VENDING MACHINES

MENS LAV

WOMENS LAV

ENTRY

N

CUT.

OIL B

OVERHEAD DOOR CL 15 FT.

WIRE STRAIGHTENING MACHINES

INSERT PRESSES
10 DIAMOND PUNCH PRESSES (MODIFIED)

BRAKE

SHEAR

PR

TOLEDO PUNCH PRESS 30 T

TOLEDO PUNCH PRESS 60 T

20 T

BLISS PUNCH PRESSES (2)

20 T

POWER HACK-SAW

SHEET METAL & BAR STOCK STORAGE RACK

AISLE

B&S MILL

THOMAS PUNCH PRESS

CURTAIN

WELDING AREA

WELD BENCH

ARC WELD

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

SHEAR PRESS

DO-ALL SAW

TT

DO-ALL SAW

DP

B (MT)

DP

DP

DIE PRESS

TENSILE TESTER

ROCKWELL TESTER

SURF PLATE

B MT

B MT

B MT

BELT SAND

ASSY PR. No. 2 LL

ASSY BENCH (H)

POWER VISE

PUNCH PRESS

SERRATOR

ASSY PRESS

ASSY PRESS

ASSY PRESS

DIAMOND PRESSES (2)

DENNISON MULTI-PRESS

DENNISON MULTI-PRESS

RIVET MACH.

ASSY BENCH

ASSY BENCH

FOOT PRESSES (3)

TORQUE MACH.

ROLLER ASSY PRESSES (3)

B B B B

INSPECTION AREA

TOTE PAN STOWAGE RACK 48 PANS

STOCK RACK STORAGE 640 CU FT, 10 FT HIGH

AISLE (42 IN.)

RACK AISLE RACK AISLE RACK AISLE RACK AISLE

RACK STORAGE 640 CU FEET 10 FT HIGH

AISLE (42 IN.)

RACK

DESK

FILES

DESK

OFFICE MATERIAL CONTROL SHIPPING & RECEIVING

KARDEX

SHIPPING DEPT. BENCH

PORTABLE WT. COUNT SCALE

WEIGHT COUNT PLATFORM SCALE

DOCK

8 FOOT AISLE

A

A

PLANT

STEEL COIL STORAGE AREA 54 SKIDS, 36 IN COILS STACKED 6 HIGH

TIME CLOCK

EMPLOYEES ENTRANCE

STEEL COIL STORAGE 132 SKIDS, 30 IN. COILS STACKED 6 HIGH

TOTE PAN STORAGE RACK, 62 IN HIGH, 90 PANS

HARDWARE STORAGE BINS (4 - 36 x 27 x 30 STORAGE 36 x 27 x 30 IN.)

HARDWARE STORAGE BINS (4 - 36 x 27 x 30 STORAGE 36 x 27 x 30 IN.)

HARDWARE STOWAGE - 8 BINS BOTTOM TIER - 8 BINS 36 x 42 x 30 TOP TIER - 8 BINS 36 x 27 x 30

RACK STORAGE 48 CU FT. 10 FT HIGH

AISLE

RACK

AISLE

RACK STORAGE 400 CU FT. 10 FT. HIGH

AISLE

WT COUNT SCALE

PLATFORM SCALE

SHIPPING DEPT.

BENCH

BENCH BENCH

PAPER SHEAR

UP

A

A

ASSEMBLY

INSP.

STORAGE

PARTS MANUFACTURING

UTILITY

REST ROOMS

MATERIAL HANDLING

GENERAL LAYOUT

SECTION A-A

4' 4' 4' 4' 4'

2'

3'

Steel Coil Storage Area
54 Skids, 36 in Coils
Stacked 6 High

Time Clock

Employees Entrance

Steel Coil Storage
132 Skids, 30 in. Coils
Stacked 6 High

Tote Pan Storage Rack, 62 in High

Hardware Storage Bins (4 - 36 x 42 x 30)

Hardware Storage Bins (4 - 36 x 42 x 30)

Hardware Storage Bins
Bottom Tier - 8 Bins
36 x 42 x 30
Top Tier - 8 Bins
36 x 27 x 30

Rack Storage
480 Cu Ft
10 Ft High

Aisle

Rack

Aisle

Rack Storage
400 Cu Ft
10 Ft High

Aisle

Shipping Dept.

Bench

Bench

Bench

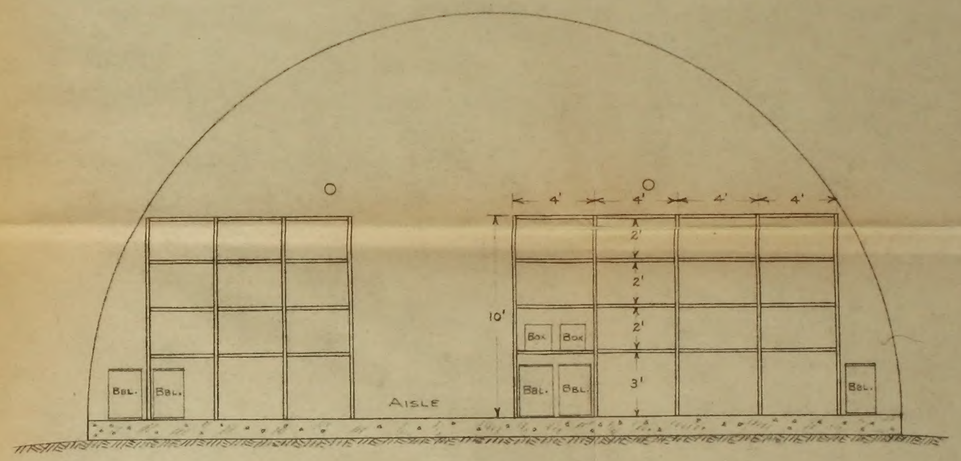
Paper Shear

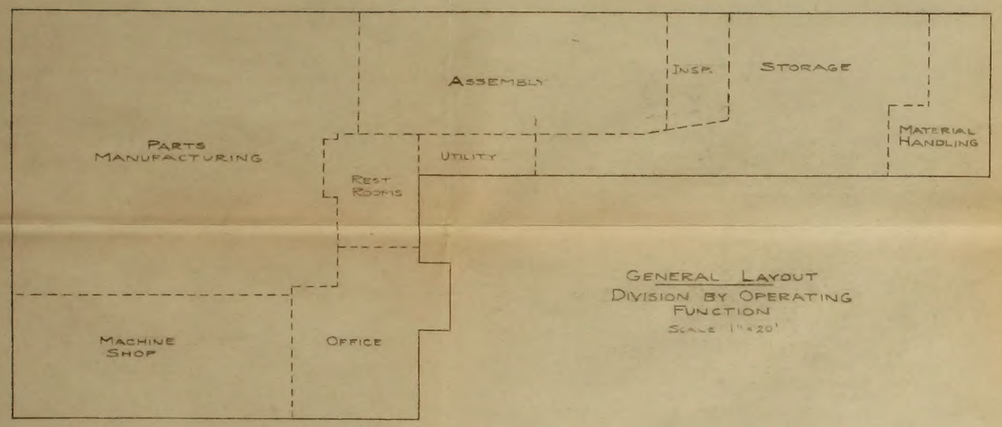
Up

A

A

Section A-A





General Layout
Division by Operating Function
Scale 1" = 20'

Legend

- Roof Support Column
- Material Reels
- Wire and Steel Strip Stock
- Indicates Operator's Position or Required Access at Machine

B	Bench
B (MT)	Bench, Metal Top
T	Table
TT	Tool Table
DP	Drill Press
PP	Punch Press
PR	Press
FP	Foot Press

Navy Postgraduate Program
Rensselaer Polytechnic Institute
Management Engineering Seminar G 6.80

Simmons Machine Tool Corporation
Fastener Division
Proposed Layout Building 18.

Date 4 Apr 1959 Scale 1/4 In. = 1 Ft.

Dwg No. 4

Thesis
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